CLAIMS: "

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- 1. A cleaning sheet for removing foreign matter adhering on a tip of a probe needle of a probe card, comprising a cleaning layer having a surface, the surface of the cleaning layer forming one surface of the cleaning sheet, wherein the cleaning layer contains a urethane polymer and a vinyl polymer.
- The cleaning sheet as claimed in claim 1, wherein the vinyl
 polymer is an acrylic polymer.
 - 3. The cleaning sheet as claimed in claim 1, wherein the cleaning layer comprises a mixture containing a ure than e polymer and a vinyl monomer, the mixture being irradiated with radiation to cure it.
 - 4. The cleaning sheet as claimed in claim 1, wherein the cleaning layer is formed by reacting a polyol and a polyisocyanate in the presence of a vinyl monomer to form the urethane polymer to form a mixture containing the urethane polymer and a vinyl monomer, and irradiating the mixture with radiation to cure it.
- The cleaning sheet as claimed in claim 1, further comprising
 a backing layer.

- 6. The cleaning sheet as claimed in claim 5, further comprising a pressure-sensitive adhesive layer, wherein the cleaning layer is provided on one surface of the backing layer and the pressure-sensitive adhesive layer is provided on another surface of the backing layer.
- 7. The cleaning sheet as claimed in claim 1, wherein the cleaning layer has an initial elastic modulus of 0.5 to 100 N/mm^2 .
 - 8. The cleaning sheet as claimed in claim 7, wherein the vinyl polymer is an acrylic polymer.
- 9. The cleaning sheet as claimed in claim 7, wherein the cleaning layer comprises a mixture containing a urethane polymer and a vinyl monomer, cured by irradiation with radiation.
- 10. The cleaning sheet as claimed in claim 7, wherein the cleaning sheet layer comprises a mixture containing a urethane polymer and a vinyl monomer, the urethane prepolymer being formed by reaction between a polyol and a polyisocyanate in the presence of the vinyl monomer, the mixture being cured by irradiation with radiation.

- 11. The cleaning sheet as claimed in claim 7, further comprising a backing layer.
- 12. The cleaning sheet as claimed in claim 11, further

 5 comprising a pressure-sensitive adhesive layer, wherein the
 cleaning layer is provided on one surface of the backing layer
 and the pressure-sensitive layer is provided on another surface
 of the backing layer.
- 10 13. Atransportingmember comprising a support and the cleaning layer of claim 1 provided on the support.
- 14. The transporting member as claimed in claim 13, wherein the cleaning sheet is provided on the support through a sticking means.
 - 15. The transporting member as claimed in claim 13, wherein the support is a wafer.
- 20 16. Atransporting member comprising a support and the cleaning sheet of claim 7 provided on the support.
 - 17. The transporting member as claimed in claim 16, wherein the cleaning sheet is provided on the support through a sticking means.

- 18. The transporting member as claimed in claim 16, wherein the support is a wafer.
- 5 19. A method of producing a cleaning sheet, comprising the steps of:

reacting a polyol and a polyisocyanate in the presence of a vinyl monomer to form a urethane polymer, thereby forming a mixture containing the urethane polymer and the vinyl monomer;

10 coating the mixture on a release sheet or a backing layer;
and

irradiating the coated mixture with radiation to cure the mixture to form the cleaning layer.

15 20. Amethod of cleaning a probe needle, comprising contacting the cleaning layer of the cleaning sheet of claim 1 or the cleaning layer of the transporting member of claim 7 with a probe needle of a probe card having a tip to remove foreign matter adhering on the tip of the probe needle.